```
FILE 'HOME' ENTERED AT 13:53:05 ON 13 MAR 2003

=> fie caplus
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Some commands only work in certain files.  For example, the EXPAND
command can only be used to look at the index in a file which has an
index.  Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'CAPLUS' ENTERED AT 13:53:22 ON 13 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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```



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FILE COVERS 1907 - 13 Mar 2003  VOL 138 ISS 11
FILE LAST UPDATED: 12 Mar 2003  (20030312/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> cinnamaldehyde
          7135 CINNAMALDEHYDE
           252 CINNAMALDEHYDES
L1        7224 CINNAMALDEHYDE
                 (CINNAMALDEHYDE OR CINNAMALDEHYDES)

=> reductive amination
         50873 REDUCTIVE
             4 REDUCTIVES
         50877 REDUCTIVE
                 (REDUCTIVE OR REDUCTIVES)
         25446 AMINATION
           256 AMINATIONS
         25496 AMINATION
                 (AMINATION OR AMINATIONS)
L2        4391 REDUCTIVE AMINATION
                 (REDUCTIVE(W)AMINATION)

=> l1 and l2
L3          13 L1 AND L2
```

=> d l3 1-13 ti

L3 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Supercritical hydrogenation of substrates

L3 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI **Reductive amination** of aldehydes and ketones by a Hantzsch dihydropyridine using scandium triflate as a catalyst

L3 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Direct **reductive amination** of aldehydes and ketones using phenylsilane: catalysis by dibutyltin dichloride

L3 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI **Reductive amination** process using a homogeneous iridium catalyst for the conversion of aldehydes and ketones into amines

L3 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI A single-step **reductive amination** of carbonyl compounds with polymethylhydrosiloxane-Ti(OiPr)4

L3 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Chemoselective **reductive amination** of aldehydes and ketones by dibutylchlorotin hydride-HMPA complex

L3 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI N-Alkyl-N-cyclopropylanilines as Mechanistic Probes in the Nitrosation of N,N-Dialkyl Aromatic Amines

L3 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI **Reductive amination** of aldehydes and ketones with dimethylamine using borohydride exchange resin (BER)

L3 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI One-Pot **Reductive Amination** of Conjugated Aldehydes and Ketones with Silica Gel and Zinc Borohydride

L3 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Trichlorosilane-dimethylformamide (Cl3SiH-DMF) as an efficient reducing agent. Reduction of aldehydes and imines and **reductive amination** of aldehydes under mild conditions using hypervalent hydridosilicates

L3 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI **Reductive amination** of piperidines with aldehydes using borane-pyridine

L3 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Electroorganic chemistry. 140. Electroreductively promoted intra- and intermolecular couplings of ketones with nitriles.

L3 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Saturated heterocyclic carboxamides, especially thiazolidinecarboxamides, useful as PAF antagonists, their pharmaceutical compositions, and processes and intermediates for their preparation

=> palladium
128271 PALLADIUM
33 PALLADIUMS

```
L4      128275 PALLADIUM
               (PALLADIUM OR PALLADIUMS)

=> l3 and l4
L5           1 L3 AND L4

=> d l5 ti fbib abs

L5   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS
TI   Supercritical hydrogenation of substrates
AN   2002:793577  CAPLUS
DN   137:296565
TI   Supercritical hydrogenation of substrates
IN   Ross, Stephen Keith; Meehan, Nicola Jane; Poliakoff, Martyn; Carter,
     Daniel N.
PA   Thomas Swan & Co. Ltd., UK
SO   PCT Int. Appl., 20 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   WO 2002081414      A2   20021017       WO 2002-GB1387   20020404
     WO 2002081414      A3   20021212
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                            GB 2001-8775   A 20010406
     GB 2374071         A1   20021009       GB 2001-8775     20010406
AB   The present invention relates to a method of carrying out hydrogenation
of
     a substrate (e.g., aniline) in the presence of a supercrit. fluid such
     that more than one phase is present in the reaction medium.  The reaction
     is performed under continuous conditions.  The process leads to improved
     yields of the desired hydrogenated product (e.g., cyclohexylamine).  The
     process also enables the selective formation of a particular product
where
     the formation of more than one product is possible; a process flow
diagram
     is presented.


=> logoff hold
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                        ENTRY     SESSION
FULL ESTIMATED COST                                      15.35       15.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE      TOTAL
                                                        ENTRY     SESSION
CA SUBSCRIBER PRICE                                      -0.65       -0.65

 SESSION WILL BE HELD FOR 60 MINUTES
```

```
STN INTERNATIONAL SESSION SUSPENDED AT 13:56:16 ON 13 MAR 2003

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 13:59:35 ON 13 MAR 2003
FILE 'CAPLUS' ENTERED AT 13:59:35 ON 13 MAR 2003
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                   15.35      15.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                   -0.65      -0.65

=> rreductive alkylation
             0 RREDUCTIVE
         85894 ALKYLATION
          2244 ALKYLATIONS
         86423 ALKYLATION
                 (ALKYLATION OR ALKYLATIONS)
L6           0 RREDUCTIVE ALKYLATION
                 (RREDUCTIVE(W)ALKYLATION)

=> reductive alkylation
         50873 REDUCTIVE
             4 REDUCTIVES
         50877 REDUCTIVE
                 (REDUCTIVE OR REDUCTIVES)
         85894 ALKYLATION
          2244 ALKYLATIONS
         86423 ALKYLATION
                 (ALKYLATION OR ALKYLATIONS)
L7        2737 REDUCTIVE ALKYLATION
                 (REDUCTIVE(W)ALKYLATION)

=> d his

     (FILE 'HOME' ENTERED AT 13:53:05 ON 13 MAR 2003)

     FILE 'CAPLUS' ENTERED AT 13:53:22 ON 13 MAR 2003
L1         7224 CINNAMALDEHYDE
L2         4391 REDUCTIVE AMINATION
L3           13 L1 AND L2
L4       128275 PALLADIUM
L5            1 L3 AND L4
L6            0 RREDUCTIVE ALKYLATION
L7         2737 REDUCTIVE ALKYLATION

=> l1 and l7
```

L8 13 L1 AND L7

=> l8 not l3
L9 12 L8 NOT L3

=> d l9 1-12 ti

L9 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of novel N-alkylaspartylamide derivatives as sweeteners

L9 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS
TI Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and palladium catalysts

L9 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS
TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates

L9 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS
TI Functionalized cross-linked copolymers: a "C2-symmetric" solid-phase catalyst for enantioselective reactions

L9 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of peptide lactams as inhibitors of peptide binding to MHC class II proteins

L9 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2003 ACS
TI Process for producing dioxane derivatives and pharmaceutical compositions comprising same as active ingredient

L9 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of 2,7-diamino-1,2,3,4-tetrahydronaphthalenes as drugs

L9 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS
TI Reduction of aldehyde with tributyltin hydride-hexamethylphosphoric triamide combined system

L9 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS
TI A new reduction with hydrogen telluride

L9 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS
TI 1-Benzhydryl-4-cinnamylpiperazine

L9 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS
TI **Reductive alkylation** of aldehyde p-tolylsulfonylhydrazones with organolithium reagents

L9 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS
TI Substituted .alpha.-benzylphenethylamines

=> palladium
128271 PALLADIUM
33 PALLADIUMS
L10 128275 PALLADIUM
(PALLADIUM OR PALLADIUMS)

=> l9 and l10
L11 2 L9 AND L10

=> d l11 1-2 ti

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and **palladium** catalysts

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates

=> d l11 1-2 ti fbib abs

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and **palladium** catalysts
AN 2001:420165 CAPLUS
DN 135:257210
TI Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and **palladium** catalysts
AU Jursic, B. S.; Neumann, D. M.
CS Department of Chemistry, University of New Orleans, New Orleans, LA, 70148, USA
SO Tetrahedron Letters (2001), 42(25), 4103-4107
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 135:257210
AB Effective synthetic procedures are described for the prepn. of mono- and di-C-alkylated barbituric acid derivs. through **palladium** and platinum catalytic hydrogenation of solns. of barbituric acids (unsubstituted, N-mono-, and N,N'-disubstituted barbituric acids) and carbonyl compds. (aliph. and arom. aldehydes and ketones).
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates
AN 2001:265443 CAPLUS
DN 134:281142
TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates
IN Nagashima, Kazutaka; Aoki, Yuuichi; Takemoto, Tadashi; Amino, Yusuke; Funakoshi, Nao; Ono, Eriko
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001025260	A1	20010412	WO 2000-JP6626	20000926

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

JP 1999-287398 A 19991007
JP 1999-371284 A 19991227

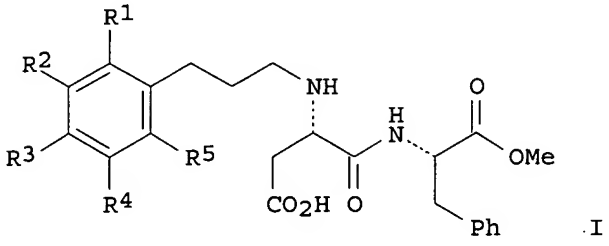
AU 2000073219 A5 20010510
AU 2000-73219 20000926
JP 1999-287398 A 19991007
JP 1999-371284 A 19991227
WO 2000-JP6626 W 20000926

EP 1231215 A1 20020814
EP 2000-961237 20000926
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL
JP 1999-287398 A 19991007
JP 1999-371284 A 19991227
WO 2000-JP6626 W 20000926

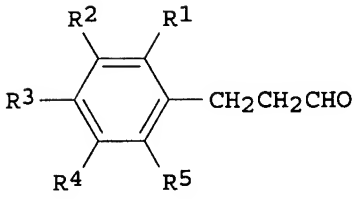
US 2002133037 A1 20020919
US 2002-117196 20020408
JP 1999-287398 A 19991007
JP 1999-371284 A 19991227
WO 2000-JP6626 A120000926

OS CASREACT 134:281142; MARPAT 134:281142

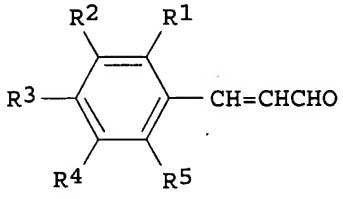
GI



I



II



III

AB Industrial and efficient processes for producing aspartyldipeptide ester derivs. of general formula (I; R1-R5 = H, OH, C1-3 alkoxy, C1-3 alkyl, benzyloxy, C2-3 hydroxyalkyloxy; or R1 and R2 or R2 and R3 together represents methylenedioxy), which are expected to serve as sweetener (no data), comprise **reductive alkylation** of aspartame with propionaldehydes or **cinnamaldehydes** of general formulas (II) and (III) in the presence of a catalyst. Particularly, described are an industrial and efficient process for producing N-[N-[3-(3-hydroxy-4-

methoxyphenyl)propyl]-L-aspartyl]-L-phenylalanine 1-Me ester (IV) which is excellent as high sweetener; useful and advantageous intermediates for the process; and efficient processes for producing the intermediates. Thus, 5.89 g aspartame and 3.42 g 3-(3-hydroxy-4-methoxyphenyl)propionaldehyde (prepn. given) were added to 200 mL 80% aq. methanol, stirred at 40.degree. for a while, and hydrogenated in the presence of 1.78 10% Pd-C at 0.1 M Pa and 40.degree. for 40 h to give 78.9% IV.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	35.13	35.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.95	-1.95

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:02:45 ON 13 MAR 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 14:19:23 ON 13 MAR 2003
FILE 'CAPLUS' ENTERED AT 14:19:23 ON 13 MAR 2003
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	35.13	35.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.95	-1.95

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	35.13	35.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.95	-1.95

FILE 'REGISTRY' ENTERED AT 14:19:39 ON 13 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7
DICTIONARY FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

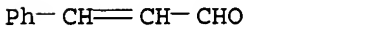
```
=> e cinnamaldehyde/cn
E1            1     CINNAMALACETOPHENONE TETRABROMIDE/CN
E2            1     CINNAMALANILINE/CN
E3            1 --> CINNAMALDEHYDE/CN
E4            1     CINNAMALDEHYDE 5-NITRO-2-PYRIDYLHYDRAZONE/CN
E5            1     CINNAMALDEHYDE ANIL/CN
E6            1     CINNAMALDEHYDE ANTIOXIME/CN
E7            1     CINNAMALDEHYDE CHLOROOXIME/CN
E8            1     CINNAMALDEHYDE CYCLIC ETHYLENE ACETAL/CN
E9            1     CINNAMALDEHYDE DI-TERT-BUTYL DITHIOACETAL/CN
E10           1     CINNAMALDEHYDE DIMETHYL ACETYL/CN
E11           1     CINNAMALDEHYDE DIPHENYL THIOACETAL/CN
E12           1     CINNAMALDEHYDE ETHYLENE GLYCOL ACETAL/CN

=> e3
L12           1 CINNAMALDEHYDE/CN

=> d l12

L12  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS
RN   104-55-2  REGISTRY
CN   2-Propenal, 3-phenyl- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Cinnamaldehyde (8CI)
OTHER NAMES:
CN   .beta.-Phenylacrolein
CN   3-Phenyl-2-propen-1-al
CN   3-Phenyl-2-propenal
CN   3-Phenyl-2-propenaldehyde
CN   3-Phenyl-2-propene-1-al
CN   3-Phenylacrolein
CN   3-Phenylacrylaldehyde
CN   3-Phenylpropenal
CN   Abion CA
CN   Benzylideneacetaldehyde
CN   Cassia aldehyde
CN   Cinnamal
CN   Cinnamic aldehyde
CN   Cinnamite
CN   Cinnamyl aldehyde
```

CN Phenylacrolein
CN Zimtaldehyde
FS 3D CONCORD
MF C9 H8 O
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6405 REFERENCES IN FILE CA (1962 TO DATE)
85 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
6419 REFERENCES IN FILE CAPLUS (1962 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> filecaplus
0 FILECAPLUS
L13 0 FILECAPLUS

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.52	45.86

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.95

FILE 'CAPLUS' ENTERED AT 14:20:26 ON 13 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 13 Mar 2003 VOL 138 ISS 11
FILE LAST UPDATED: 12 Mar 2003 (20030312/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> d his

     (FILE 'HOME' ENTERED AT 13:53:05 ON 13 MAR 2003)

     FILE 'CAPLUS' ENTERED AT 13:53:22 ON 13 MAR 2003
L1          7224 CINNAMALDEHYDE
L2          4391 REDUCTIVE AMINATION
L3            13 L1 AND L2
L4        128275 PALLADIUM
L5             1 L3 AND L4
L6             0 RREDUCTIVE ALKYLATION
L7          2737 REDUCTIVE ALKYLATION
L8            13 L1 AND L7
L9            12 L8 NOT L3
L10       128275 PALLADIUM
L11            2 L9 AND L10

     FILE 'REGISTRY' ENTERED AT 14:19:39 ON 13 MAR 2003
                E CINNAMALDEHYDE/CN
L12            1 E3
L13            0 FILECAPLUS

     FILE 'CAPLUS' ENTERED AT 14:20:26 ON 13 MAR 2003

=> l2 or l7
L14        6852 L2 OR L7

=> l12
L15        6420 L12

=> l15 or l1
L16        9948 L15 OR L1

=> l14 and l16
L17          33 L14 AND L16

=> l17 not (l3 or l9)
L18           8 L17 NOT (L3 OR L9)

=> d l18 1-8 ti

L18  ANSWER 1 OF 8  CAPLUS  COPYRIGHT 2003 ACS
TI   Preparation and formulation of thiazolidinecarboxamide derivatives as
     platelet-activating factor (PAF) antagonists

L18  ANSWER 2 OF 8  CAPLUS  COPYRIGHT 2003 ACS
TI   .alpha.-Glucosidase inhibitors, 3.  4-(Alkylamino)-4,6-dideoxy sugars via
     reductive amination

L18  ANSWER 3 OF 8  CAPLUS  COPYRIGHT 2003 ACS
TI   Reduction of reducible groups and their use

L18  ANSWER 4 OF 8  CAPLUS  COPYRIGHT 2003 ACS
TI   N-Substituted pseudo-amino sugars and their use
```

L18 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Valienamine derivatives and their use

L18 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Adjacently disubstituted ketones, prostaglandins E1 and antithrombotic compositions containing them

L18 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI **Reductive amination** of .alpha.,.beta.-unsaturated carbonyl compounds with tetracarbonylhydridoferrate as a reducing agent

L18 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Synthesis of aldehydes

=> d l18 1-8 ti fbib abs

L18 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Preparation and formulation of thiazolidinecarboxamide derivatives as platelet-activating factor (PAF) antagonists
AN 1991:514494 CAPLUS
DN 115:114494
TI Preparation and formulation of thiazolidinecarboxamide derivatives as platelet-activating factor (PAF) antagonists
IN Mase, Toshiyasu; Hara, Hiromu; Nagaoka, Hitoshi; Takahashi, Takumi; Suzuki, Takeshi; Tomioka, Kenichi; Yamada, Toshimitsu
PA Yamanouchi Pharmaceutical Co., Ltd., Japan
SO U.S., 82 pp. Cont.-in-part of U.S. Ser. No. 157,406, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4987132	A	19910122	US 1988-232899	19880816
				JP 1987-36950	19870220
				JP 1987-125259	19870521
				JP 1987-249499	19871001
				US 1988-157406	19880217
	ZA 8801182	A	19881026	ZA 1988-1182	19880219
				JP 1987-36950	19870220
	JP 02000179	A2	19900105	JP 1988-37224	19880219
	JP 06031230	B4	19940427		
				JP 1987-36950	19870220
				JP 1987-125259	19870521
				JP 1987-249499	19871001
				JP 1988-13928	19880125
	JP 07002844	A2	19950106	JP 1993-205720	19930728
				JP 1987-36950	19870220
				JP 1987-125259	19870521
				JP 1987-249499	19871001
				JP 1988-13928	19880125

PATENT FAMILY INFORMATION:
FAN 1989:23877

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 279681	A2	19880824	EP 1988-301397	19880219
	EP 279681	A3	19891115		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
				JP 1987-36950	19870220

			JP 1987-125259 19870521
			JP 1987-249499 19871001
CN 1030415	A	19890118	CN 1988-100590 19880216
			JP 1987-36950 19870220
			JP 1987-125259 19870521
			JP 1987-249499 19871001
FI 8800757	A	19880821	FI 1988-757 19880218
FI 93113	B	19941115	
FI 93113	C	19950227	
			JP 1987-36950 19870220
			JP 1987-125259 19870521
			JP 1987-249499 19871001
DK 8800866	A	19880822	DK 1988-866 19880219
			JP 1987-36950 19870220
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NO 8800740	A	19880822	NO 1988-740 19880219
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JP 06031230	B4	19940427	
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			JP 1987-125259 19870521
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HU 50335	A2	19900129	HU 1988-811 19880219
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			JP 1987-125259 19870521
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AU 8812080	A1	19880825	AU 1988-12080 19880222
AU 618726	B2	19920109	
			JP 1987-36950 19870220
			JP 1987-125259 19870521
			JP 1987-249499 19871001
AU 9214013	A1	19920625	AU 1992-14013 19920401
AU 646156	B2	19940210	
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			JP 1987-249499 19871001
JP 07002844	A2	19950106	JP 1993-205720 19930728
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			JP 1988-13928 19880125

OS MARPAT 115:114494

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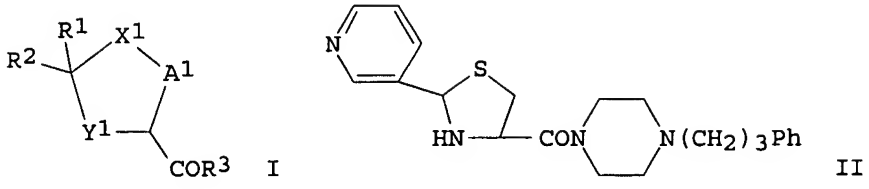

I II

AB The title compds. [I; R1 = (un)substituted 5- or 6-membered hetero- or benzoheterocyclyl; R2 = H, alkyl, R1; X1 = O, S, CH2, alkylidene; Y1 = O, S, NR4; R4 = H, alkyl, CO2H, acyl, alkoxycarbonyl; A1 = CH2, CH2CH2, optionally substituted by alkyl groups; R3 = NR5R6, NHNR8R9, NR10OR11; one of R5, R6 = H, (un)substituted hydrocarbyl and the other = (un)substituted hydrocarbyl, R1; R5R6 = A2ZR7A3, A2OA3; A2, A3 = (un)substituted alkylene; Z = CH, N; R7 = H, CO2H, acyl, alkoxycarbonyl, CONH2, mono- or dialkylcarbamoyl, (un)substituted hydrocarbyl; R8-R11 = H, alkyl, aralkyl, aryl] are prepd. as PAF antagonists. Amidation of 2-(3-pyridyl)thiazolidine-4-carboxylic acid with 1-(3-phenylpropyl)piperazine using DCC in the presence of 1-hydroxybenzotriazole in DMF gave 60% (thiazolidinylcarbonyl)piperazine II, isolated as its trihydrochloride, which had an IC50 of 0.054 .mu.M in vitro for inhibition of PAF-induced rabbit platelet aggregation. Tablet formulation was given.

L18 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI .alpha.-Glucosidase inhibitors, 3. 4-(Alkylamino)-4,6-dideoxy sugars via **reductive amination**
AN 1985:437680 CAPLUS
DN 103:37680
TI .alpha.-Glucosidase inhibitors, 3. 4-(Alkylamino)-4,6-dideoxy sugars via **reductive amination**
AU Koehn, Arnim; Schmidt, Richard R.
CS Fak. Chem., Univ. Konstanz, Konstanz, D-7750, Fed. Rep. Ger.
SO Liebigs Annalen der Chemie (1985), (4), 775-84
CODEN: LACHDL; ISSN: 0170-2041
DT Journal
LA German
OS CASREACT 103:37680
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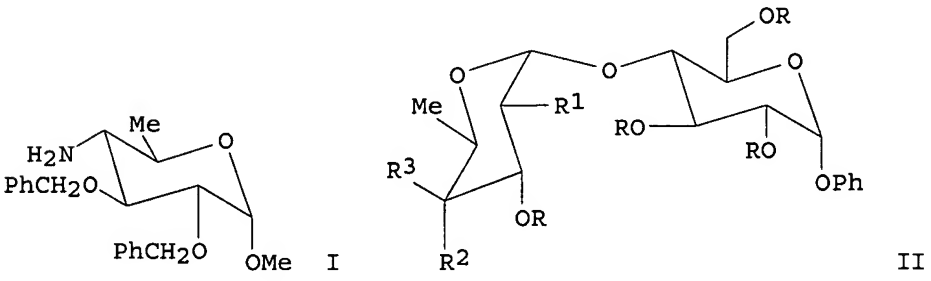

AB Alkylamino sugars structurally derived from acarbose were obtained by **reductive amination** of aldehydes or ketones with amino sugars in presence of NaCNBH3. Amino sugars investigated were the 4-amino-4,6-dideoxy-D-glucose I, the 4'-amino-4',6'-dideoxymaltosides II (R = R1 = R3 = H, R2 = NH2; R = CH2Ph, R1 = OCH2Ph, R2 = NH2, R3 = H), and 4-amino-4,6-dideoxy-.alpha.-D-galactopyranosyl-(1.fwdarw.4)-.alpha.-D-glucopyranoside II (R = CH2Ph, R1 = OCH2Ph, R2 = H, R3 = NH2).

L18 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Reduction of reducible groups and their use
AN 1983:421589 CAPLUS
DN 99:21589
TI Reduction of reducible groups and their use
IN Eckert, Heiner
PA Fed. Rep. Ger.
SO Ger. Offen., 24 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3121478	A1	19821216	DE 1981-3121478	19810529
	DE 3121478	C2	19860522		
	EP 66103	A1	19821208	EP 1982-103817	19820504
	EP 66103	B1	19850828		
	R: BE, CH, DE, FR, GB, IT, NL				
				DE 1981-3121478	19810529
	US 4537713	A	19850827	US 1982-379789	19820519
				DE 1981-3121478	19810529
	JP 57203018	A2	19821213	JP 1982-92058	19820529
				DE 1981-3121478	19810529

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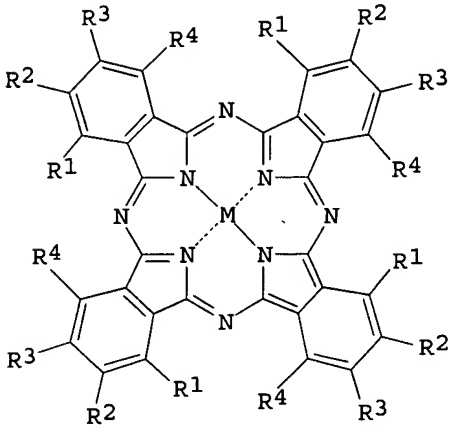

I

AB Phthalocyanins I (M = Pt group metal, R1-R4 = H, halo, cyano, etc. an adjacent groups are benzo) catalyzed the redn. of C-C, C-N, N-N, or N-O double bonds, e.g., in NO2, NO, NOH, etc. I could also be used for the removal of protective groups in peptides.

L18 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI N-Substituted pseudo-amino sugars and their use
AN 1982:598515 CAPLUS
DN 97:198515
TI N-Substituted pseudo-amino sugars and their use
IN Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi

PA Takeda Chemical Industries, Ltd. , Japan
SO Eur. Pat. Appl., 60 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 56194	A1	19820721	EP 1981-306141	19811224
	EP 56194	B1	19840912		
	R: BE, CH, DE, FR, GB, IT, NL, SE				
				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
	JP 57114554	A2	19820716	JP 1981-561	19810105
	JP 01061100	B4	19891227		
	JP 57200335	A2	19821208	JP 1981-84635	19810602
	JP 02038580	B4	19900831		
	JP 58059946	A2	19830409	JP 1981-159657	19811006
	JP 02039501	B4	19900905		
	US 4701559	A	19871020	US 1981-334986	19811228
				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
	CA 1184181	A1	19850319	CA 1982-393545	19820104
				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
	US 4777294	A	19881011	US 1987-39278	19870417
				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
				US 1981-334986	19811228
	US 4803303	A	19890207	US 1987-39277	19870417
				JP 1981-561	19810105
				JP 1981-84635	19810602
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				US 1981-334986	19811228

OS CASREACT 97:198515
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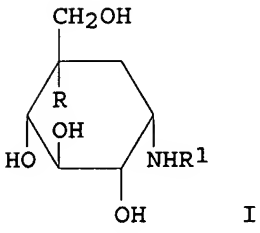

I

AB The title sugars I [R = H, OH; R1 = (un)substituted C1-10 alkyl, (un)substituted C3-7 cycloalkyl] were prepd. Thus, validamine was treated with CO(CH2OH)2 and NaBH3CN to give N-(1,3-dihydroxy-2-propyl)validamine. I showed excellent inhibitory activity against .alpha.-glucosidase and are

therefore useful for hyperglycemic symptoms and various disorders caused by hyperglycemia.

L18 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Valienamine derivatives and their use
AN 1982:528005 CAPLUS
DN 97:128005
TI Valienamine derivatives and their use
IN Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi
PA Takeda Chemical Industries, Ltd. , Japan
SO Eur. Pat. Appl., 47 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 49981	A1	19820421	EP 1981-304570	19811002
EP 49981	B1	19840725		
R: BE, CH, DE, FR, GB, IT, NL, SE				
			JP 1980-140172	19801006
JP 57064648	A2	19820419	JP 1980-140172	19801006
JP 63040418	B4	19880811		
US 4486602	A	19841204	US 1981-306774	19810929
			JP 1980-140172	19801006
CA 1173041	A1	19840821	CA 1981-387251	19811005
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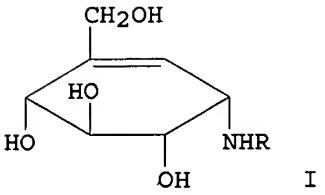

I

AB Valienamine derivs. I [R = (un)substituted C1-10 alkyl, polyhydroxyalkyl, (un)substituted C3-7 cycloalkyl], with glucoside hydrolase inhibiting activity (activity given) and thus useful for hyperglycemic symptoms and various disorders caused by hyperglycemia, were prepd. from valienamine. Thus, valienamine (4.0 g) was treated with 2.6 mL PhCH2Br in MeOH-dioxane in the presence of NaHCO3 to give 1.8 g N-benzylvalienamine.

L18 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Adjacently disubstituted ketones, prostaglandins E1 and antithrombotic compositions containing them
AN 1981:191784 CAPLUS
DN 94:191784
TI Adjacently disubstituted ketones, prostaglandins E1 and antithrombotic compositions containing them
IN Noyori, Ryoji; Suzuki, Masaaki; Kurozumi, Seizi
PA Teijin Ltd., Japan
SO Eur. Pat. Appl., 69 pp.
CODEN: EPXXDW
DT Patent

LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 19475	A2	19801126	EP 1980-301617	19800516
	EP 19475	A3	19810211		
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				JP 1979-60293	19790518
	JP 55153725	A2	19801129	JP 1979-60293	19790518
	JP 01011620	B4	19890227		
	US 4315032	A	19820209	US 1980-149584	19800514
				JP 1979-60293	19790518
	EP 38613	A1	19811028	EP 1981-200597	19800516
	EP 38613	B1	19840829		
	R: CH, DE, FR, GB				
				JP 1979-60293	19790518
	JP 01045331	A2	19890217	JP 1988-176940	19880718
	JP 03006127	B4	19910129		
				JP 1979-60293	19790518

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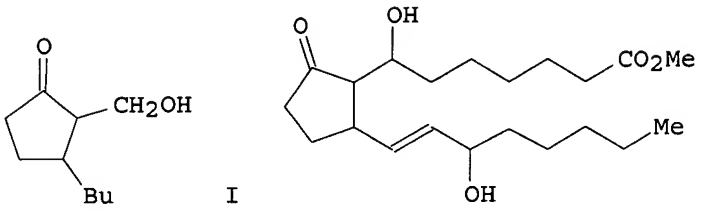

AB Cyclopentenones were subjected to reductive metalation-alkylation with CuI, an organolithium compd., and an aldehyde. Thus, BuLi in hexane was added dropwise to CuI, Bu3P, and Et2O under argon at -78.degree., BF3.Et2O added, 2-cyclopenten-1-one in Et2O added dropwise, the mixt. stirred and warmed to -40.degree., THF added, and HCHO blown in with argon to give I. The method was extended to the synthesis of prostaglandin analogs such as II.

L18 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI **Reductive amination** of .alpha.,.beta.-unsaturated carbonyl compounds with tetracarbonylhydridoferrate as a reducing agent
AN 1979:490641 CAPLUS
DN 91:90641
TI **Reductive amination** of .alpha.,.beta.-unsaturated carbonyl compounds with tetracarbonylhydridoferrate as a reducing agent
AU Kim, Hong-Seok; Shim, Sang Chul; Shim, Sang Chull
CS Dep. Chem., Korea Adv. Inst. Sci., Seoul, S. Korea
SO Taehan Hwahakhoe Chi (1979), 23(2), 99-103
CODEN: DHWHAB; ISSN: 0418-2472
DT Journal
LA English
AB The **reductive amination** of RCH:CHCHO (R = Ph, Me, H) was carried out by KHFe(CO)4 in the presence of primary amines. The products, secondary amines, were obtained in yields from 21 to 62%.

L18 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS

TI Synthesis of aldehydes
AN 1979:103418 CAPLUS
DN 90:103418
TI Synthesis of aldehydes
IN Meyers, Albert I.
PA Louisiana State University Agricultural and Mechanical College, USA
SO U.S., 10 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 4131623	A	19781226	US 1969-840062	19690708
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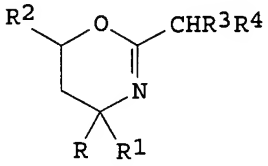

I

AB 1,3-Oxazines I (R, R1, R2 = H, Me, Et, Pr; R3 = R4 = H, Ph, cyano, OMe, carbalkoxy) were treated with alkali metal alkyls and electrophiles, the products were reduced by hydride, and the perhydrooxazines obtained were cleaved by oxalic acid to give the resp. R5CR3R4CHO (R5 = electrophile residue). The reaction of I (R = R1 = R2 = Me, R3 = R4 = H) with BuLi and styrene oxide and redn. and ring cleavage of the product gave HOCH2CHPhCH2CHO.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	31.55	77.41

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CA SUBSCRIBER PRICE	-5.21	-7.16

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7
DICTIONARY FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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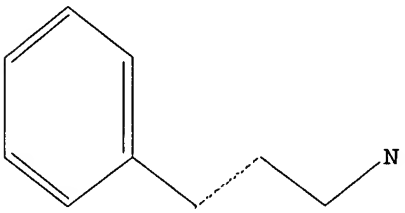

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BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 863103 TO 887977
PROJECTED ANSWERS: 549495 TO 569445

L20 50 SEA SSS SAM L19

=> d scan

L20 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 3-Pyridinecarbonitrile,
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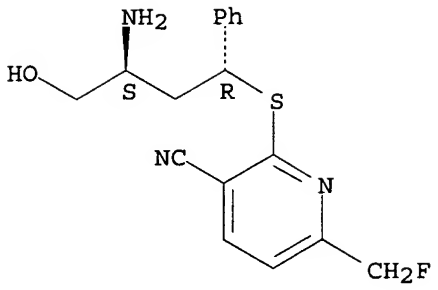
6-(fluoromethyl)- (9CI)
MF C17 H18 F N3 O S
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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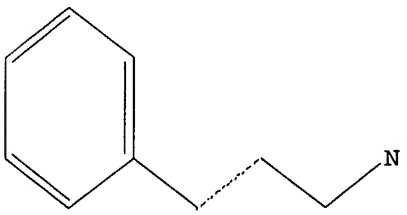
L21 STR



Structure attributes must be viewed using STN Express query preparation.

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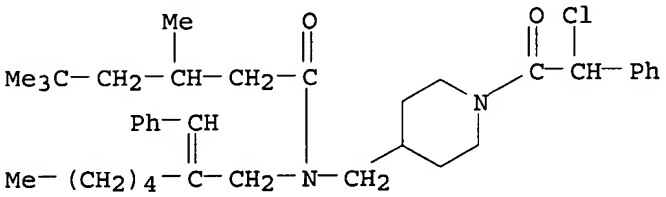
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 863103 TO 887977
PROJECTED ANSWERS: 53712 TO 60108

L22 50 SEA SSS SAM L21

=> d scan

L22 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Hexanamide, N-[[1-(chlorophenylacetyl)-4-piperidinyl]methyl]-3,5,5-trimethyl-N-[2-(phenylmethylene)heptyl]- (9CI)
MF C37 H53 Cl N2 O2



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SEARCH TIME: 00.00.08

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PROJECTED ITERATIONS: 873928 TO 873928
PROJECTED ANSWERS: 54708 TO 56118

L23 25363 SEA SSS FUL L21

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STN INTERNATIONAL SESSION SUSPENDED AT 14:29:44 ON 13 MAR 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *

SESSION RESUMED IN FILE 'REGISTRY' AT 14:33:03 ON 13 MAR 2003
FILE 'REGISTRY' ENTERED AT 14:33:03 ON 13 MAR 2003
COPYRIGHT (C) 2003 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	150.55	227.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.16

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	150.55	227.96

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.16

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USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 13 Mar 2003 VOL 138 ISS 11
FILE LAST UPDATED: 12 Mar 2003 (20030312/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L3	13	L1 AND L2
L4	128275	PALLADIUM
L5	1	L3 AND L4
L6	0	RREDUCTIVE ALKYLATION
L7	2737	REDUCTIVE ALKYLATION
L8	13	L1 AND L7
L9	12	L8 NOT L3
L10	128275	PALLADIUM
L11	2	L9 AND L10

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L12             1 E3
L13             0 FILECAPLUS

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L15          6420 L12
L16          9948 L15 OR L1
L17            33 L14 AND L16
L18             8 L17 NOT (L3 OR L9)

     FILE 'REGISTRY' ENTERED AT 14:25:48 ON 13 MAR 2003
L19                STRUCTURE UPLOADED
L20            50 SEARCH L19 SSS SAM
L21                STRUCTURE UPLOADED
L22            50 SEARCH L21 SSS SAM
L23         25363 SEARCH L21 SSS FULL

     FILE 'CAPLUS' ENTERED AT 14:33:14 ON 13 MAR 2003

=> l23
L24         2571 L23

=> l16 and l124
L124 NOT FOUND
The L-number entered could not be found.  To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> l16 and l24
L25           41 L16 AND L24

=> l4 and l25
L26            4 L4 AND L25

=> d l26 1-4 ti fbib abs

L26  ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2003 ACS
TI   Process for preparation of hydrazine derivatives
AN   2001:676764  CAPLUS
DN   135:227017
TI   Process for preparation of hydrazine derivatives
IN   Mizufune, Hideya; Nakamura, Minoru; Yamamoto, Hiroaki; Miki, Shokyo
PA   Takeda Chemical Industries, Ltd., Japan
SO   PCT Int. Appl., 126 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.         KIND  DATE           APPLICATION NO.  DATE
     ---------------    ----  --------       ---------------  --------
PI   WO 2001066541       A1   20010913       WO 2001-JP1750   20010307
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
             HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
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DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
JP 2000-68670 A 20000308
JP 2001322991 A2 20011120 JP 2001-64660 20010308
JP 2000-68670 A 20000308

OS CASREACT 135:227017; MARPAT 135:227017

AB This document discloses industrial processes for prepg. hydrazine derivs., e.g. R1R2NNHCHR3R4 [wherein R1, R2, R3 and R4 are each hydrogen, an optionally substituted hydrocarbon group, or the like] by reducing hydrazone derivs. with a solid amine-borane complex. These processes make it possible to prep. hydrazine derivs. useful as drugs, agricultural chems., foods, cosmetics, or chem. products, or intermediates thereof. Thus, 4-(6-chloronaphthalen-2-sulfonyl)-1-[1-(4-pyridyl)-4-piperidinylamino]-2-piperazinone was prepd. in 84% yield by redn. of the corresponding hydrazone deriv. by borane dimethylamine complex.

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS

TI **Palladium**-Copper Catalyzed Synthesis of Benzofused Heterocycles with Two Heteroatoms: Novel and Highly Regio- and Stereoselective Syntheses of (E)-2-(2-Arylvinyl)-3-tosyl-2,3-dihydro-1,3-benzothiazoles and (E)-2-Alkyl(aryl)idene-3,4-dihydro-2H-1,4-benzothiazines

AN 2001:412561 CAPLUS

DN 135:152767

TI **Palladium**-Copper Catalyzed Synthesis of Benzofused Heterocycles with Two Heteroatoms: Novel and Highly Regio- and Stereoselective Syntheses of (E)-2-(2-Arylvinyl)-3-tosyl-2,3-dihydro-1,3-benzothiazoles and (E)-2-Alkyl(aryl)idene-3,4-dihydro-2H-1,4-benzothiazines

AU Kundu, Nitya G.; Nandi, Bidisha

CS Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur Calcutta, 700 032, India

SO Journal of Organic Chemistry (2001), 66(13), 4563-4575
CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal

LA English

OS CASREACT 135:152767

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A highly novel, general, and convenient **palladium** and copper-catalyzed procedure has been developed for the synthesis of (E)-arylvinyl dihydrobenzothiazoles such as I (R = Ph, 1-C10H7, 2-C10H7, 3-ClC6H4, 2-MeC6H4, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4, 2-thienyl, 2,4-dimethoxy-5-pyrimidinyl) and II (X = 1,3-C6H4, 1,4-C6H4, 2,5-thiophenediyl). Aminophenylthiopropyne 2-H2NC6H4SCH2C.tplbond.CH reacts with aryl iodides RI in the presence of dichlorobis(triphenylphosphine)**palladium** and copper (I) iodide to give disubstituted alkynes which undergo tosylation to give cyclization substrates such as arylpropynylthio-N-tosylanilines III (R = Ph, 1-C10H7, 2-C10H7, 3-ClC6H4, 2-MeC6H4, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4, 2-thienyl,

2,4-dimethoxy-5-pyrimidinyl). III undergo novel cyclizations in the presence of CuI and triethylamine in THF to give dihydrobenzothiazoles I regio- and stereoselectively rather than the expected alkylidenedihydrobenzothiazines. Arylethyl benzothiazolines IV (R1 = Ph, 1-C10H7, 2-C10H7, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4), (E)-arylvinyl benzothiazoles such as V (R2 = Ph, 1-C10H7, 2-C10H7, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4) and a novel 5-substituted uracil deriv. of potential biol. importance were also prepd. The **palladium**-copper-catalyzed arylation of propynylaminophenyl dimethylthiocarbamate 2-[Me2NC(:O)S]C6H4NHCH2C.tplbond.CH (VI) with aryl iodides gave the substituted arylpropynylaminophenyl dimethylthiocarbamates VII 2-[Me2NC(:O)S]C6H4NR3CH2C.tplbond.CR4 (R3 = H, Me, PhCH2; R4 = Ph, 1-C10H7, 2-C10H7, 3-ClC6H4, 2-MeC6H4, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4, 2-thienyl); cyclization of VII with KOH in methanol leads to (E)-arylmethylidenedihydrobenzothiazines VIII (R3 = H, Me, PhCH2; R4 = Ph, 1-C10H7, 2-C10H7, 3-ClC6H4, 2-MeC6H4, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4, 2-thienyl). Reaction of 1,2-diiodobenzene, 1,4-diiodobenzene, and 2,5-diiodothiophene with VI in the presence of dichlorobis(triphenylphosphine)**palladium** and copper (I) iodide involved the participation of only one of the iodo groups in the heteroannulation process to give VIII (R3 = H; R4 = 2-IC6H4, 4-IC6H4, 5-iodothiophen-2-yl). VIII (R3 = H; R4 = 4-IC6H4, 5-iodothiophen-2-yl) underwent Heck reaction and Sonogashira coupling, resp., to give VIII [R3 = H; R4 = 5-(trans-methoxycarbonylvinyl)thiophen-2-yl, 4-(PhC.tplbond.C)C6H4].

RE.CNT 129 THERE ARE 129 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates
AN 2001:265443 CAPLUS
DN 134:281142
TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates
IN Nagashima, Kazutaka; Aoki, Yuuichi; Takemoto, Tadashi; Amino, Yusuke; Funakoshi, Nao; Ono, Eriko
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001025260	A1	20010412	WO 2000-JP6626	20000926

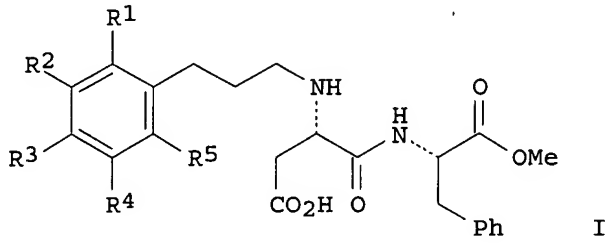
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

JP 1999-287398 A 19991007
JP 1999-371284 A 19991227

AU 2000073219	A5	20010510	AU 2000-73219	20000926
			JP 1999-287398 A	19991007
			JP 1999-371284 A	19991227
			WO 2000-JP6626 W	20000926
EP 1231215	A1	20020814	EP 2000-961237	20000926
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
			JP 1999-287398 A	19991007
			JP 1999-371284 A	19991227
			WO 2000-JP6626 W	20000926
US 2002133037	A1	20020919	US 2002-117196	20020408
			JP 1999-287398 A	19991007
			JP 1999-371284 A	19991227
			WO 2000-JP6626 A1	20000926

OS CASREACT 134:281142; MARPAT 134:281142

GI



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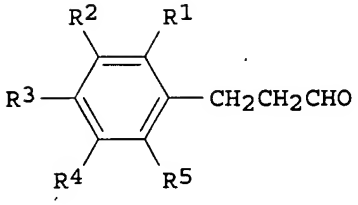
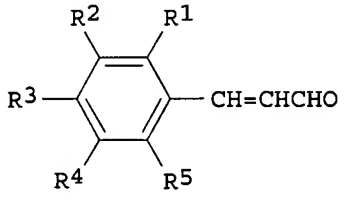


II



III

AB Industrial and efficient processes for producing aspartyldipeptide ester derivs. of general formula (I; R1-R5 = H, OH, C1-3 alkoxy, C1-3 alkyl, benzyloxy, C2-3 hydroxyalkyloxy; or R1 and R2 or R2 and R3 together represents methylenedioxy), which are expected to serve as sweetener (no data), comprise reductive alkylation of aspartame with propionaldehydes or **cinnamaldehydes** of general formulas (II) and (III) in the presence of a catalyst. Particularly, described are an industrial and efficient process for producing N-[N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-aspartyl]-L-phenylalanine 1-Me ester (IV) which is excellent as high sweetener; useful and advantageous intermediates for the process; and efficient processes for producing the intermediates. Thus, 5.89 g aspartame and 3.42 g 3-(3-hydroxy-4-methoxyphenyl)propionaldehyde (prepn. given) were added to 200 mL 80% aq. methanol, stirred at 40.degree. for a while, and hydrogenated in the presence of 1.78 10% Pd-C at 0.1 M Pa and 40.degree. for 40 h to give 78.9% IV.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS
TI **Palladium**-catalyzed chemoselective intramolecular cyclization of bromoanilinoalkenenitriles
AN 1997:706418 CAPLUS
DN 128:22487
TI **Palladium**-catalyzed chemoselective intramolecular cyclization of bromoanilinoalkenenitriles
AU Yang, Chau-Chen; Tai, Huo-Mu; Sun, Pei-Jiun
CS Department of Cosmetic Science, Chia Nan College of Pharmacy and Science, Tainan, 717, Taiwan
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1997), (19), 2843-2850
CODEN: JCPRB4; ISSN: 0300-922X
PB Royal Society of Chemistry
DT Journal
LA English
AB .alpha.-(O-Bromoanilino)alkenenitriles 2-BrC6H4NMeCHRCN (R = MeCH:CH, PrCH:CH, etc.) and 2-BrC6H4NMeC(CN):CHR1 (R1 = Et, Bu, CHMe2, CH2Ph, EtCH:CH) and .alpha.-(N-alkenylamino)-.beta.-(o-bromophenyl)propanenitriles 2-BrC6H4CH2CH(CN)NRCH2CH:CR1R2 (R = Ph, CH2Ph, R1 = H, Me, Ph, R2 = H, Me) undergo **palladium**-catalyzed conversion into o-(methylamino)benzonitrile, o-[(alkenylamino)ethenyl]benzonitriles, N-alkenylanilines, 3-benzazepines, .gamma.-carbolines and a pyrrolo[3,2-b]indole. The reactions involve intramol. addns. of arylpalladium to the cyano group and subsequent processes such as cyano group transposition, hydrolysis, electrocyclization, Et group transfer and oxidative aromatization. A general mechanism for the **palladium**-catalyzed arylation of a cyano group is proposed.
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FULL ESTIMATED COST	11.33	239.29

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CA SUBSCRIBER PRICE	-2.60	-9.76

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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4	Apr 09	ZDB will be removed from STN
NEWS 5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS 13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS 15	Jul 30	NETFIRST to be removed from STN
NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18	Aug 08	NTIS has been reloaded and enhanced
NEWS 19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 23	Sep 03	JAPIO has been reloaded and enhanced
NEWS 24	Sep 16	Experimental properties added to the REGISTRY file
NEWS 25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27	Oct 21	EVENTLINE has been reloaded
NEWS 28	Oct 24	BEILSTEIN adds new search fields
NEWS 29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS 31	Nov 18	DKILIT has been renamed APOLLIT
NEWS 32	Nov 25	More calculated properties added to REGISTRY
NEWS 33	Dec 02	TIBKAT will be removed from STN
NEWS 34	Dec 04	CSA files on STN
NEWS 35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36	Dec 17	TOXCENTER enhanced with additional content
NEWS 37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS 38	Dec 30	ISMEC no longer available
NEWS 39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS 41	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS 42	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS 43	Feb 13	CANCERLIT is no longer being updated
NEWS 44	Feb 24	METADEX enhancements
NEWS 45	Feb 24	PCTGEN now available on STN
NEWS 46	Feb 24	TEMA now available on STN
NEWS 47	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS 48	Feb 26	PCTFULL now contains images
NEWS 49	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results